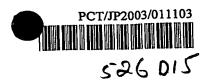
Translation





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

25 FEB 2005

Applicant's or agent's file reference . 15-101	FOR FURTHER ACTI	ON	See Form PCT/IPEA/416			
International application No.	International filing date (Priority date (day/month/year)			
PCT/JP2003/011103	29 August 2003 (2	29.08.2003)	30 August 2002 (30.08.2002)			
International Patent Classification (IPC) or national classification and IPC A61H 3/00, F16H 1/36, 1/28, B25J 19/00						
Applicant HONDA GIKEN KOGYO KABUSHIKI KAISHA						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the						
Administrative Instructions).						
<u> </u>	4. This report contains indications relating to the following items:					
Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV Lack of unity of invention					
Box No. V Reasoned s citations an	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doc	cuments cited					
Box No. VII Certain def	Box No. VII Certain defects in the international application					
Box No. VIII Certain obs	servations on the internation	nal application				
Date of submission of the demand		Date of completion	on of this report			
19 March 2004 (19.03.2004)		30	November 2004 (30.11.2004)			
Name and mailing address of the IPEA/JP		Authorized office	er			
Facsimile No.		Telephone No.				



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/011103

Box No. I	Bas	is of the report	
otherwi	ise indica	the language, this report is based on the international application in the language in which ated under this item.	
	This rep which is	ort is based on translations from the original language into the following language language of a translation furnished for the purpose of:	3
[inte	ernational search (under Rules 12.3 and 23.1(b))	
Ī	pul	blication of the international application (under Rule 12.4)	
Ī	int	ernational preliminary examination (under Rules 55.2 and/or 55.3)	
furnish and ar	hed to the re not an	o the elements of the international application, this report is based on (replacement e receiving Office in response to an invitation under Article 14 are referred to in this renexed to this report): rnational application as originally filed/furnished	sheets which have been eport as "originally filed"
	the desci		
	pages		, as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
	the clain	ns'	
ш			, as originally filed/furnished
	pages*	, as amended (together with ar	ny statement) under Article 19
	pages*		
	pages*	received by this Authority on	
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	the drav	vings:	, as originally filed/furnished
	pages		•
	pages*	received by this Authority on	
	pages*		
3.		ence listing and/or any related table(s) – see Supplemental Box Relating to Sequence List endments have resulted in the cancellation of:	ing.
		he description, pages	
1		the claims. Nos.	
	<u> </u>	the drawings, sheets/figs	
l			
Ļ		the sequence listing (specify):	
ļ	t	any table(s) related to sequence listing (specify):	
4.	made, (Rule	eport has been established as if (some of) the amendments annexed to this report and since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)). the description, pages the claims, Nos the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):	listed below had not been in the Supplemental Box
* If ite	em 4 app	olies, some or all of those sheets may be marked "superseded."	



International Cation No.
PCT/JP03/11103

Box No. V Reasoned statement un	der Article	35(2) with regard to novelty, inventive step or industrial applicability;	
citations and explanati	ons support	ting such statement	
1. Statement			1/000
Novelty (N)	Claims	1-6	YES
	Claims		ИО
Inventive step (IS)	Claims		YES
• • • •	Claims	1-6	NO
Industrial applicability (IA)	Claims	1-6	YES
••	Claims		NO
none) Document 2: JP, 4-501227, A (4865024, A, & WO, 90-04371, Document 3: JP, 3-107650, A (Document 4: JP, 53-7574, B2 (none) Document 5: JP, 3-121336, A (Family: none) Document 6: Microfilm of the Model Application No. 157420	Tokyo R& David Elli A Komatsu I Toyota M Nissan M specificati	aD Co., Ltd.), 27 June, 1995 (27.06.95), full text, all drawings is Hensley), 5 March, 1992 (05.03.92), full text, all drawings, a Ltd.), 8 May, 1991 (08.05.91), full text, all drawings (Family: fotor Corp.), 18 March, 1978 (18.03.78), full text, all drawings fotor Co. Ltd.), 23 May, 1991 (23.05.91), full text, all drawings from and drawings annexed to the written application of Japanes and-open No. 73861/1986), (NEC Home Electronics, Ltd.), 19 Family: none) gura), 5 December, 1949 (05.12.49), full text, all drawings (Family: none)	& US, none) (Family s s utility May,

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V2

Claims 1 and 2

Documents 1 and 2 disclose a speed reducer for a walk assistance apparatus to reduce the rate of revolution of an input shaft driven by a motor to be transmitted to an output shaft connected with leg joints, to assist the user to walk by extending or bending his or her leg joints.

Documents 3-6 disclose a speed reducer having first and second planetary gear mechanisms, P1 and P2, wherein the second planetary gear mechanism P2 is disposed outside the first planetary gear mechanism P1 in the radial direction.

Accordingly, there would be no particular difficulty in adopting a speed reducer that has first and second planetary gear mechanisms, P1 and P2, wherein the second planetary gear mechanism P2 is disposed outside the first planetary gear mechanism P1 along P1's radial direction, for the speed reducer for a walk assistance apparatus described in document 1 or 2.

Claims 3 and 6

Documents 1 and 2 disclose a speed reducer for a walk assistance apparatus to reduce the rate of revolution of an input shaft driven by a motor to be transmitted to an output shaft connected with leg joints, to assist the user to walk by extending or bending his or her leg joints.

Documents 3-5 disclose a speed reducer having first, second and third planetary gear mechanisms, P1-P3, wherein the second planetary gear mechanism P2 is disposed outside the first planetary gear mechanism P1 along P1's radial direction and the third planetary gear mechanism P3 is disposed outside the first planetary gear mechanism P1 along the direction indicated by the shape of L to the axial line of P1.

Accordingly, there would be no particular difficulty in adopting a speed reducer that has first, second and third planetary gear mechanisms, P1-P3, wherein the second planetary gear mechanism P2 is disposed outside the first planetary gear mechanism P1 along P1's radial direction, and the third planetary gear mechanism P3 is disposed outside the first planetary gear mechanism P1 along the direction indicated by the shape of L to the axial line of P1, for the speed reducer for a walk assistance apparatus described in document 1.

Claims 4 and 5

Documents 1 and 2 disclose a speed reducer for a walk assistance apparatus to reduce the rate of revolution of an input shaft driven by a motor to be transmitted to an output shaft connected with leg joints, to assist the user to walk by extending or bending his or her leg joints.

Document 7 discloses a speed reducer having first, second and third planetary gear mechanisms, P1-P3, wherein the second planetary gear mechanism P2 is disposed outside the first planetary gear mechanism P1 along P1's radial direction and the third planetary gear mechanism P3 is disposed outside the second planetary gear mechanism P2 along P2's radial direction.

Accordingly, there would be no particular difficulty in adopting a speed reducer that has first, second and third planetary gear mechanisms, P1-P3, wherein the second planetary gear mechanism P2 is disposed outside the first planetary gear mechanism P1 along P1's radial direction, and the third planetary gear mechanism P3 is disposed outside the second planetary gear mechanism P2 along P2's radial direction, for the speed reducer for a walk assistance apparatus described in document 1 or 2.